

TRANSPARENT INTERCHANGEABLE NETWORK (TIN)

ABSTRACT OF THE INVENTION

5 Voice over Internet Protocol (VoIP) private network call rerouting or
switching, substantially transparent to both the caller and the called party. IP private
network calls (e.g., VoIP private network) are automatically switched over a Public
Services Telephone Network (PSTN) such as an Integrated Services Digital Network
10 (ISDN) as the need arises. Alternate routing may occur because of, for example,
network congestion, network outages, or detected poor Quality of Service (QoS) in
the private network. Routing is over existing customer PSTN trunks and a dedicated
Direct Inward Dial (DID) number, unlisted, that serves all users at a distributed
system. Calls that may be switched to the PSTN (ISDN) are correlated with call
associated information, such as a private calling user number, name, classmarks,
15 Dialed Number Identification Services (DNIS), user group. VoIP calls made
between users appear as intranetwork calls regardless of whether they are
intranetwork calls or alternately routed.